

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
19 January 2006 (19.01.2006)

PCT

(10) International Publication Number  
**WO 2006/006344 A1**

(51) International Patent Classification<sup>7</sup>: **F04B 39/02**,  
39/00, 39/12

(21) International Application Number:  
PCT/JP2005/011205

(22) International Filing Date: 14 June 2005 (14.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004-201545 8 July 2004 (08.07.2004) JP

(71) Applicant (for all designated States except US): **MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD.**  
[JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka,  
5718501 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ISHIDA, Yoshinori.**

(74) Agents: **IWAHASHI, Fumio** et al.; c/o Matsushita Elec-  
tric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi,  
Osaka 571-8501 (JP).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,  
KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,  
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
YU, ZA, ZM, ZW.

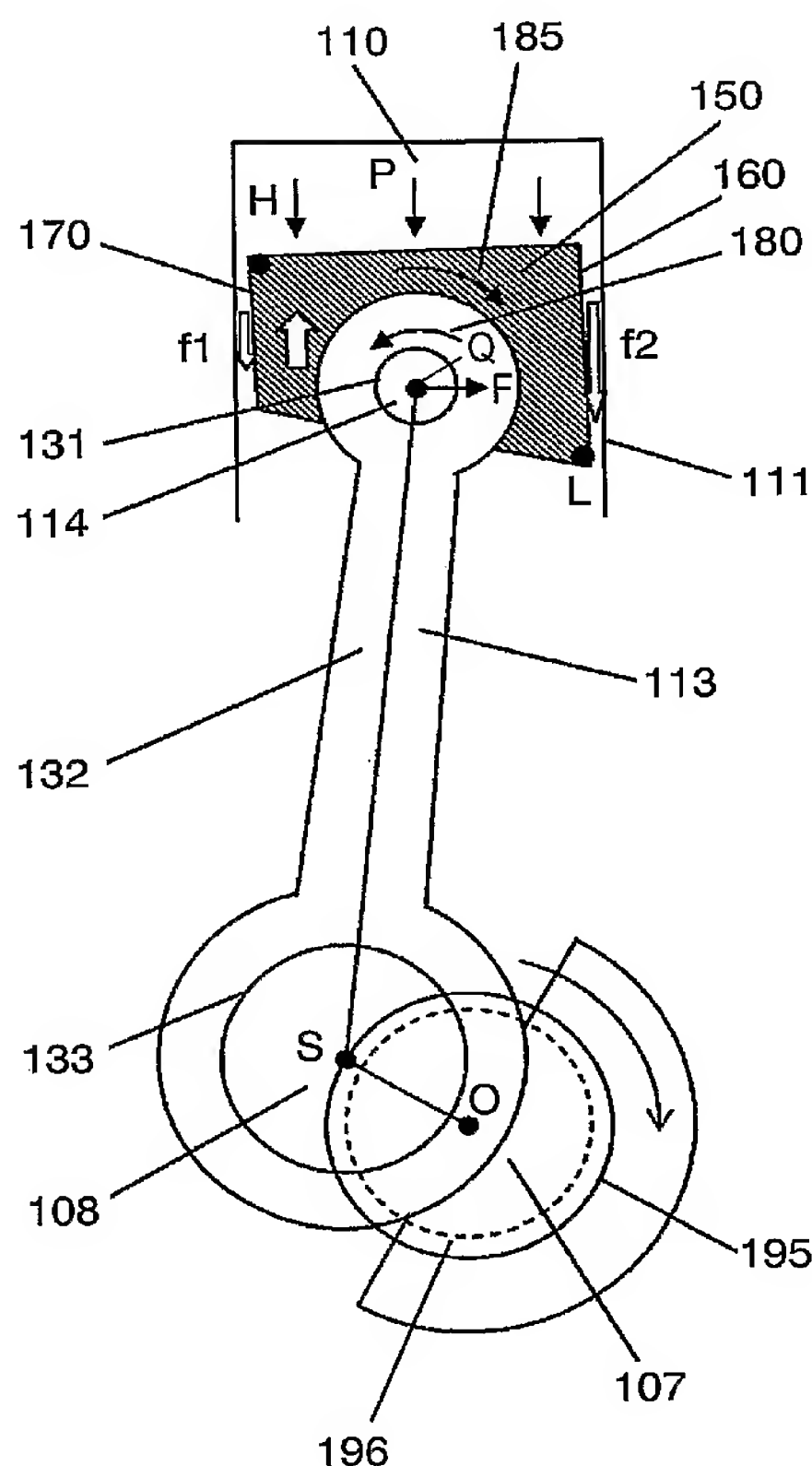
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: COMPRESSOR



(57) Abstract: A compressor which includes a piston (150) reciprocating in a cylinder bore (111) provided in a cylinder block. Length of the circumferential surface at the compression load side (160) is made to be longer than that at the anti-compression load side (170), so that area of sliding-contact surface at the compression load side is greater than that at the anti-compression load side. The above configuration is effective to prevent occurrence of wearing due to unsymmetrical contact of piston with cylinder bore. Thus, deterioration in the refrigeration capability and instability of the performance is prevented.



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*